

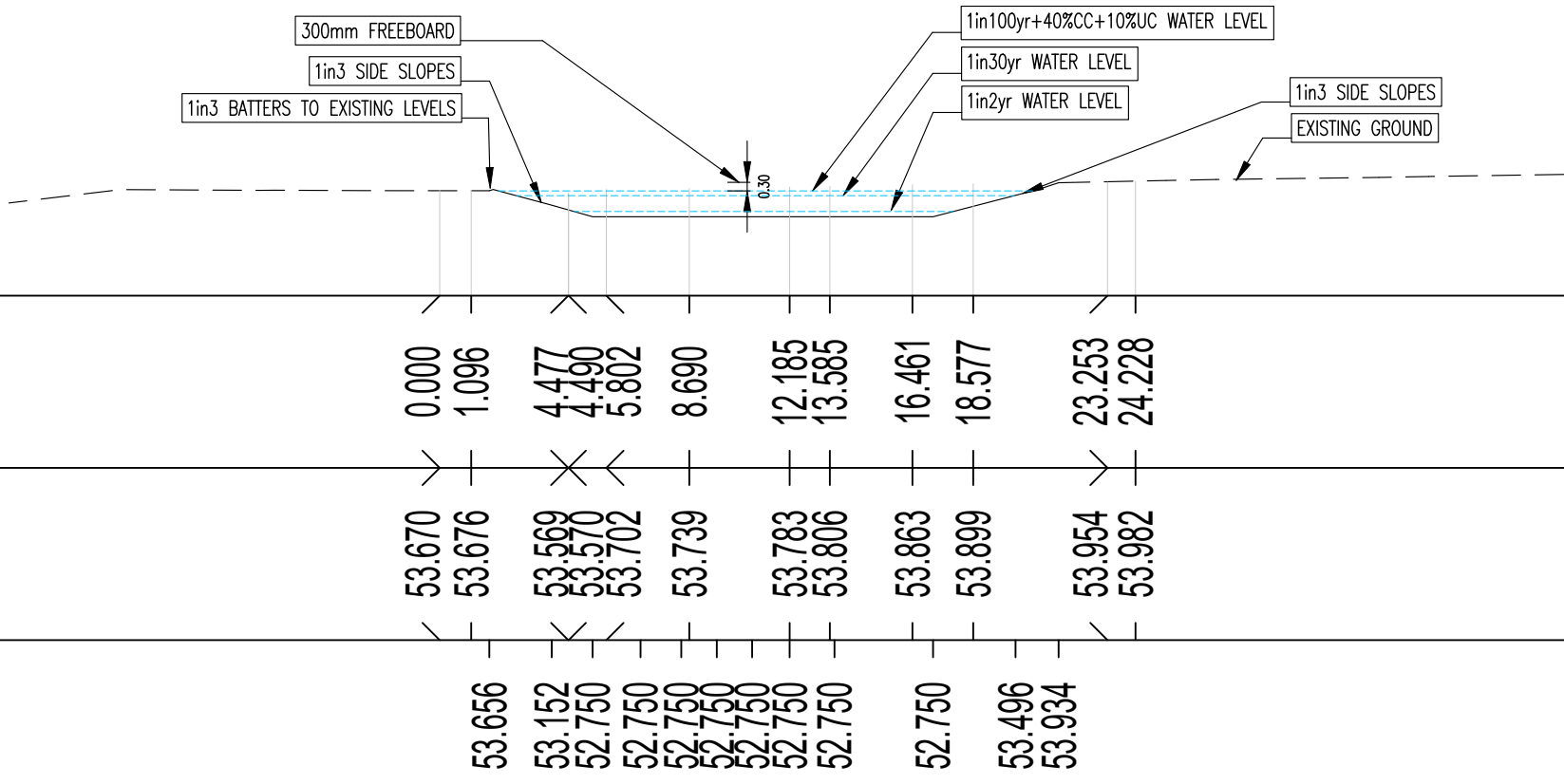
A-A

Datum: 50.000M AOD

EXISTING CHAINAGE (m)

EXISTING LEVELS (m)

EARTHWORK LEVELS (m)



0.000	1.096	4.477	4.450	5.802	8.690	12.165	13.585	16.461	18.577	23.253	24.228
>	>	<	<	<	<	>	>	>	>	>	>
53.670	53.676	53.569	53.570	53.702	53.739	53.783	53.806	53.863	53.889	53.954	53.982
<	<	<	<	<	<	<	<	<	<	<	<
53.656	53.152	52.750	52.750	52.750	52.750	52.750	52.750	52.750	53.496	53.934	

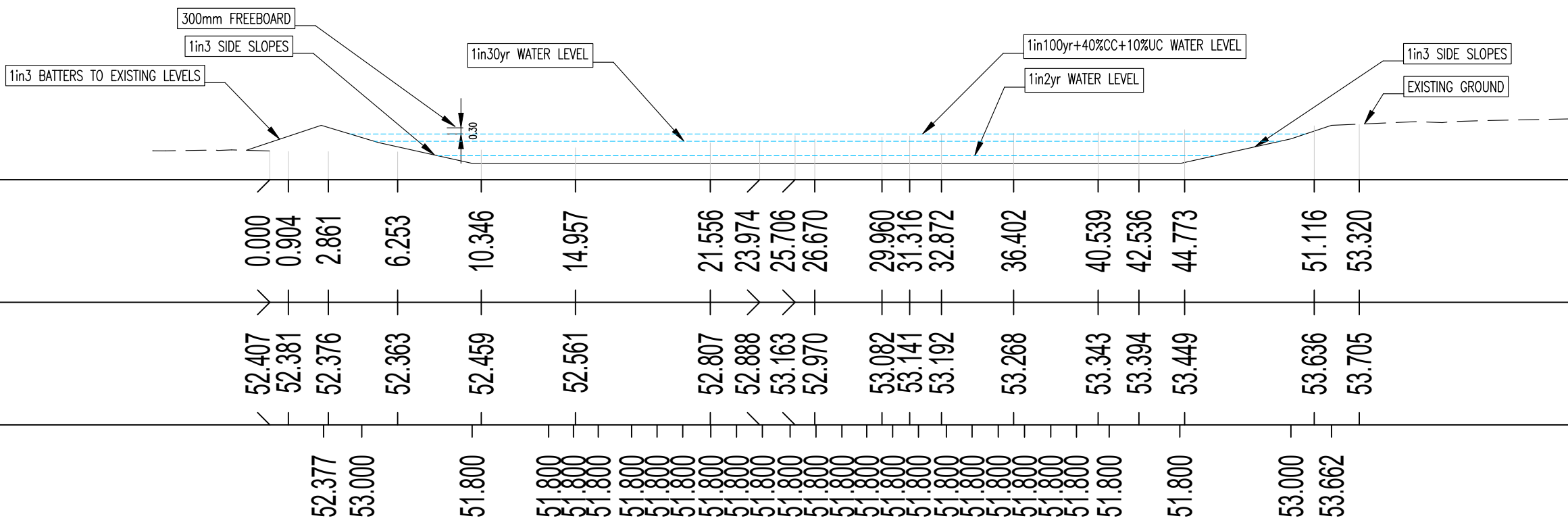
B-B

Datum: 51.000M AOD

EXISTING CHAINAGE (m)

EXISTING LEVELS (m)

EARTHWORK LEVELS (m)

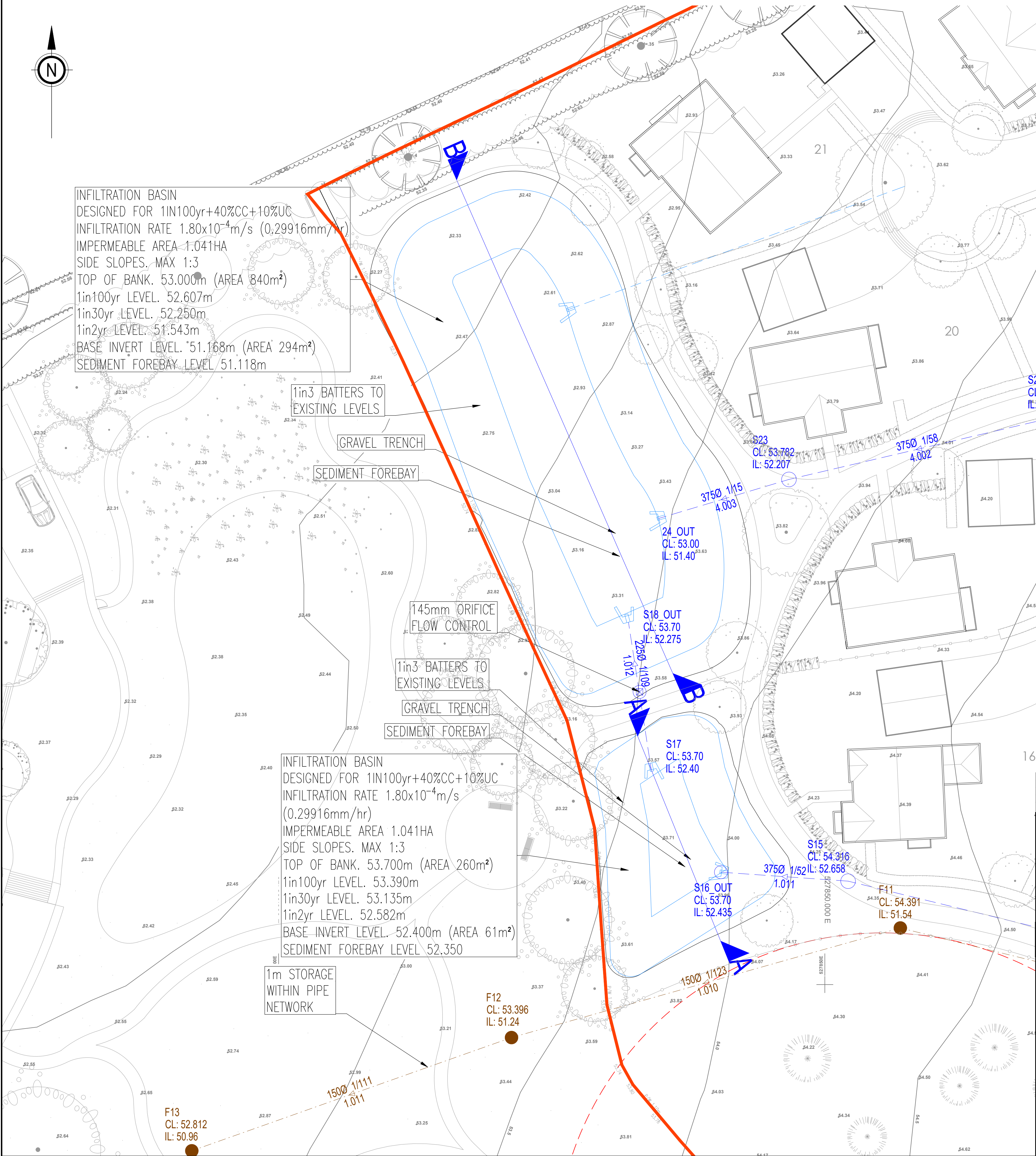


0.000	0.904	2.861	6.253	10.346	14.957	21.556	23.974	25.706	26.670	29.980	31.316	32.872	36.402	40.539	42.536	44.773	51.116	53.320
>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>
52.407	52.381	52.376	52.363	52.459	52.561	52.807	52.888	53.163	52.970	53.082	53.141	53.192	53.268	53.343	53.394	53.449	53.636	53.705
<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
52.377	53.000			51.800	52.800	52.800	52.800	52.800	52.800	52.800	52.800	52.800	52.800	52.800	52.800	51.800	53.000	53.662

- GENERAL
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED. ANY DISCREPANCIES ARE TO BE RECORDED AND REPORTED TO THE ENGINEERS IMMEDIATELY.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERS AND ARCHITECTS DRAWINGS AND THE SPECIFICATION.
 - ANY EXISTING DETAILS WHICH ARE SHOWN ON THIS DRAWING ARE FOR GUIDANCE ONLY AND ARE TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY VARIATIONS ARE TO BE RECORDED AND REPORTED TO THE ENGINEER IMMEDIATELY.
- NOTES
- AN ALLOWANCE OF 10% HAS BEEN ADDED TO IMPERMEABLE ROOF AREAS FOR THE CONSIDERATION OF URBAN CREEP.
 - THE SURFACE WATER NETWORK HAS BEEN DESIGNED TO ACCOMMODATE A 1IN100YR STORM EVENT TO INCLUDE 40% CLIMATE CHANGE.
 - ALL ADAPTABLE SURFACE WATER SEWERS WITHIN ADAPTABLE HIGHWAYS ARE TO BE A MINIMUM OF 225MM.
 - ALL SEWER WORKS FOR THE WATER AUTHORITY ARE TO BE IN ACCORDANCE WITH 'SEWERAGE SECTOR GUIDANCE APPENDIX C' DESIGN AND CONSTRUCTION GUIDANCE VERSION 1.0 25TH OCTOBER 2019 AND ANY ADDENDUM THEREAFTER.
 - ALL PRIVATE CONNECTIONS TO ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 100MM DIAMETER (FOUL) & 150MM DIAMETER (SURFACE) MADE IN VITRIFIED CLAY CONNECTING SOFFIT TO SOFFIT.
 - THIS DRAWING IS FOR INTENDED FOR STRATEGY PURPOSES ONLY TO ASSIST AND INFORM IN OUTLINING THE INITIAL CONCEPTS AND FEASIBILITY OF THE SCHEME, ANY DETAILS OR INFORMATION ON THIS DRAWING ARE SUBJECT TO CHANGE.

LONG SECTION KEY

EXISTING GROUND PROFILE	---
BASIN PROFILE	---



INFILTRATION BASIN
DESIGNED FOR 1IN100yr+40%CC+10%UC
INFILTRATION RATE $1.80 \times 10^{-4} \text{m/s}$ (0.29916mm/hr)
IMPERMEABLE AREA 1.041HA
SIDE SLOPES, MAX 1:3
TOP OF BANK, 53.000m (AREA 840m²)
1in100yr LEVEL, 52.607m
1in30yr LEVEL, 52.250m
1in2yr LEVEL, 51.543m
BASE INVERT LEVEL, 51.168m (AREA 294m²)
SEDIMENT FOREBAY LEVEL 51.118m

1in3 BATTERS TO
EXISTING LEVELS

GRAVEL TRENCH

SEDIMENT FOREBAY

145mm ORIFICE
FLOW CONTROL

1in3 BATTERS TO
EXISTING LEVELS

GRAVEL TRENCH

SEDIMENT FOREBAY

INFILTRATION BASIN
DESIGNED FOR 1IN100yr+40%CC+10%UC
INFILTRATION RATE $1.80 \times 10^{-4} \text{m/s}$
(0.29916mm/hr)
IMPERMEABLE AREA 1.041HA
SIDE SLOPES, MAX 1:3
TOP OF BANK, 53.700m (AREA 260m²)
1in100yr LEVEL, 53.390m
1in30yr LEVEL, 53.135m
1in2yr LEVEL, 52.582m
BASE INVERT LEVEL, 52.400m (AREA 61m²)
SEDIMENT FOREBAY LEVEL 52.350

1m STORAGE
WITHIN PIPE
NETWORK

F13
CL: 52.812
IL: 50.96

F12
CL: 53.396
IL: 51.24

1500 1/123
1.010

1500 1/111
1.011

A REVISED TO NEW ARCHITECT LAYOUT 2025.11.25		JL	KK	03.12.25
Rev	Revision Notes	Des	Appd	Date
 Unit 1a Greenwood Court, Skyliner Way, Bury St Edmunds, IP32 7GY. Tel: 01284 245024 --- www.ingent.co.uk --- email: info@ingent.co.uk				
 www.worksafeconsultant.com				
 SAFETY SCHEMES IN PROCUREMENT				
 Safety Scheme				
STRATEGY				
Project: STATION ROAD, ASHWELL HERTFORDSHIRE				
Drawing Title: BASIN SECTIONS SHEET 1 OF 1				
Client: BECK HOMES		Date: OCT 25		
Drawn: JL	Designed: JL	Checked: KK	Approved: KK	
Scale: 1:200				
Project No: 2506-1025		Drawing No & Revision: ST005		Size: A1